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TEST REPORT

Client:	Bruhath Bangalore Mahanagara Palike
Project:	Package-05 1.Improvement to Roads and Drains at Ashraya Badavane in Ward No.11, 2. Improvement to Roads and Drains at Kuvempunagar 1st and 2nd stage in Ward No.11, 3. Improvement to Roads and Drains at Ramachandrapura in Ward No.11 and 4. Improvement to Roads and Drains at M S Paly in Ward No.11
Consultants:	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
Contractor:	M/s Slp Infra Engineers Pvt Ltd.
Total Weight in gm:	3000

SIEVE ANALYSIS

Type of Material:	40 mm down size			Proposed Use	PCC
Sample Location:	At Site/Plant			Date of Sampling	16.04.19
				Date of Testing	16.04.19
IS Sieve Size	Weight Retained in gm	Cum. Weight Retained in gm	Cumulative Weight Retained in %	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA-2007) % of Passing For Graded Aggregate of Nominal Size
80.00mm	0	0	0.00	100.00	100
63.00mm	0	0	0.00	100.00	-
40.00mm	80	80	2.67	97.33	95-100
20.00mm	1400	1480	49.33	50.67	30-70
10.00mm	970	2450	81.67	18.33	10-35
4.75mm	452	2902	96.73	3.27	0-5
Pan	98	3000	100.00	0.00	

Remarks: ✓ Satisfactory / Not Satisfactory

Note:

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TEST REPORT

	BRUHAT BENGALORE MAHANAGARA PALIKE
	Package-05 1.Improvement to Roads and Drains at Ashraya Badavane in Ward No.11, 2. Improvement to Roads and Drains at Kuvempunagar 1st and 2nd stage in Ward No.11, 3. Improvement to Roads and Drains at Ramachandrapura in Ward No.11 and 4. Improvement to Roads and Drains at M S Paly in Ward No.11
	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
	M/s Slp Infra Engineers Pvt Ltd.

SPECIFIC GRAVITY AND WATER ABSORPTION

FINE AGGREGATE (IS-2386-PART-3)

Fine aggregate (River Sand/ M sand)	**Proposed Use**	PCC	
At Site/Plant	**Date of Sampling**	16.04.19	
24 hours	**Date of Testing**	16.04.19	

Test Property		TRIAL - 1	TRIAL - 2	TRIAL - 3	
surface dry sample gm.		662	637	671	
dry sample gm.		652	628	661	
Pycnometer Filled with water gm		1275	1275	1275	
Pycnometer + sample + water gm		1686	1686	1698	
	B / (C + A - D)	2.598	2.779	2.665	**2.681**
	(A - B) *100 / B	1.534	1.433	1.513	**1.493**

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the laboratory /Site.
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Test Report on Cement

Project:	Package-05 1.Improvement to Roads and Drains at Ashraya Badavane in Ward No.11, 2. Improvement to Roads and Drains at Kuvempunagar 1st and 2nd stage in Ward No.11, 3. Improvement to Roads and Drains at Ramachandrapura in Ward No.11 and 4. Improvement to Roads and Drains at M S Paly in Ward No.11
Client:	Bruhat Bangalore Mahanagar Palike
Consultant:	TEJUS CONSULTANTS
Contractor:	M/s Slp Infra Engineers Pvt Ltd.
Sample ID:	Cement
Date of Sample Tested:	16.04.19
Sample Tested By:	Agency

Sl.No.	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 12269-1987
a)	Initial Setting Time	IS-4031 (Part-5)	38 Minutes	Not Less than 30 Minutes
b)	Final Setting Time	IS-4031 (Part-5)	355 Minutes	Not More than 600 Minutes
2)	Soundness	IS-4031 (Part-3) By the Le-Chatelier method	3mm	Not More than 10 mm
3)	Standard Consistency	IS-4031 (Part-4)	27.00%	25 % to 35

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TEST REPORT

Client:	Bruhat Bangalore Mahanagara Palike
Project:	Package-05 1.Improvement to Roads and Drains at Ashraya Badavane in Ward No.11, 2. Improvement to Roads and Drains at Kuvempunagar 1st and 2nd stage in Ward No.11, 3. Improvement to Roads and Drains at Ramachandrapura in Ward No.11 and 4. Improvement to Roads and Drains at M S Paly in Ward No.11
Consultants:	Tejus Consultants, Bangalore
Contractor:	M/s Slp Infra Engineers Pvt Ltd.

SIEVE ANALYSIS

Test Weight:	3000 gms		
Material:	Fine aggregate (River Sand/ M sand)	**Proposed Use**	concrete
Source:	At Site/Plant	**Date of Sampling**	16.04.19
Condition:		**Date of Testing**	

IS Sieve Size	Weight Retained	Cum. Weight Retained	Cum. % Retained	Cum. % Passing	Spec. Limit (%) Passing (Zone-II)
10mm	0	0	0	100.00	**100**
4.75mm	210	210	7.00	93.00	**90 - 100**
2.36mm	310	520	17.33	82.67	**75 - 100**
1.18mm	410	930	31.00	69.00	**55 - 90**
600mic	485	1415	47.17	52.83	**35 -59**
300mic	750	2165	72.17	27.83	**8-30**
150mic	620	2785	92.83	7.17	**0 - 10**
Pan	215	3000			-

Satisfactory / Not Satisfactory

Remarks:

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Test Report on Compressive strength of Solid Block

Project	Package-05 1.Improvement to Roads and Drains at Ashraya Badavane in Ward No.11, 2. Improvement to Roads and Drains at Kuvempunagar 1st and 2nd stage in Ward No.11, 3. Improvement to Roads and Drains at Ramachandrapura in Ward No.11 and 4. Improvement to Roads and Drains at M S Paly in Ward No.11
Client	Bruhat Bangalore Mahanagar Palike
Consultant	TEJUS CONSULTANTS
Contractor	M/S Slp Infra Engineers Pvt Ltd.
Cross sectional area	80000mm2
Size of cube	400mm x 150mm x 200mm
No. of Block Tested	1
Reference IS code	IS:2185 (Part 1)- 2005

Sl.No.	Date of Sampling	Date of testing	Area of Cube	Failure load	Compressive strength	Obtained Average compressive strength	Minimum Required compressive strength of individual units
			mm^2	KN	N/mm^2	N/mm^2	N/mm^2
1	30.04.19	30.04.19	60000	406.00	6.77	6.73	5.00
2	30.04.19	30.04.19	60000	402.00	6.70		
3	30.04.19	30.04.19	60000	404.00	6.73		

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Test Report on Compressive strength of Solid Block

Project:	Package-05 1.Improvement to Roads and Drains at Ashraya Badavane in Ward No.11, 2. Improvement to Roads and Drains at Kuvempunagar 1st and 2nd stage in Ward No.11, 3. Improvement to Roads and Drains at Ramachandrapura in Ward No.11 and 4. Improvement to Roads and Drains at M S Paly in Ward No.11
Client:	Bruhat Bangalore Mahanagar Palike
Consultant:	TEJUS CONSULTANTS
Contractor:	M/S Slp Infra Engineers Pvt Ltd.
Cross sectional area:	80000mm2
Size of cube:	400mm x 150mm x 200mm
No.of Blocks Tested:	1
Reference (IS code):	IS:2185 (Part 1)- 2005

Sl.No.	Date of Sampling	Date of testing	Area of Cube	Failure load	Compressive strength	Obtained Average compressive strength	Minimum Required compressive strength of individual units
			mm^2	KN	N/mm^2	N/mm^2	N/mm^2
1	17.03.19	17.03.19	60000	407.00	6.78	6.78	5.00
2	17.03.19	17.03.19	60000	405.00	6.75		
3	17.03.19	17.03.19	60000	409.00	6.82		

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TEST REPORT

Clients	Bruhat Bangalore Mahanagara Palike
Project	Package-05 1.Improvement to Roads and Drains at Ashraya Badavane in Ward No.11, 2. Improvement to Roads and Drains at Kuvempunagar 1st and 2nd stage in Ward No.11, 3. Improvement to Roads and Drains at Ramachandrapura in Ward No.11 and 4. Improvement to Roads and Drains at M S Paly in Ward No.11
Consultants	TEJUS CONSULTANTS
Contractor	M/s Slp Infra Engineers Pvt Ltd.
Total Weight:	10000 gms

SIEVE ANALYSIS

Type of Material	12.5 mm down size	Proposed Use	CONCRETE
Sample Location	At Site/Plant	Date of Sampling	02.05.19
		Date of Testing	02.05.19

IS Sieve Size (in mm)	Weight Retained	Cum. Weight Retained	Cum. % Retained	Cum. % Passing	Spec. Limit (%) Passing
20.0	0	0	0	100	100
12.5	556	556	5.56	94.44	90-100
10.0	4672	5228	52.28	47.72	40-85
4.75	4532	9760	97.60	2.40	0-10
Pan	240	10000			

Remarks : ✓ Satisfactory / Not Satisfactory

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TEST REPORT

Client:	Bruhat Bangalore Mahanagara Palike
Project:	Package-05 1.Improvement to Roads and Drains at Ashraya Badavane in Ward No.11, 2. Improvement to Roads and Drains at Kuvempunagar 1st and 2nd stage in Ward No.11, 3. Improvement to Roads and Drains at Ramachandrapura in Ward No.11 and 4. Improvement to Roads and Drains at M S Paly in Ward No.11
Consultants	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
Contractor	M/s Slp Infra Engineers Pvt Ltd.
Total Weight:	10000 gms

SIEVE ANALYSIS

Type of Material	20 mm down size	**Proposed Use**	Concrete
Sample Location	Plant/At site	**Date of Sampling**	02.05.19
		Date of Testing	02.05.19

IS Sieve Size	Weight Retained	Cum. Weight Retained	Cum. % Retained	Cum. % Passing	Spec. Limit (%) Passing
40.00 mm	0	0	0	100	100
20.00 mm	252	252	2.52	97.48	95 - 100
10.00 mm	4832	5084	50.84	49.16	25 - 55
4.75 mm	4210	9294	92.94	7.06	0 - 10
Pan	706	10000			

Remarks: ✓ Satisfactory / Not Satisfactory

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TEST REPORT

Client:	Bruhat Bangalore Mahanagara Palike
Project:	Package-05 1.Improvement to Roads and Drains at Ashraya Badavane in Ward No.11, 2. Improvement to Roads and Drains at Kuvempunagar 1st and 2nd stage in Ward No.11, 3. Improvement to Roads and Drains at Ramachandrapura in Ward No.11 and 4. Improvement to Roads and Drains at M S Paly in Ward No.11
Consultants	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
Contractor	M/s Slp Infra Engineers Pvt Ltd.
Total Weight:	10000 gms

SIEVE ANALYSIS

Type of Material	20 mm down size	**Proposed Use**	Concrete
Sample Location	Plant/At site	**Date of Sampling**	02.05.19
		Date of Testing	02.05.19

IS Sieve Size	Weight Retained	Cum. Weight Retained	Cum. % Retained	Cum. % Passing	Spec. Limit (%) Passing
40.00 mm	0	0	0	100	100
20.00 mm	262	262	2.62	97.38	95 - 100
10.00 mm	4832	5094	50.94	49.06	25 - 55
4.75 mm	4220	9314	93.14	6.86	0 - 10
Pan	686	10000			

Remarks : ✓ Satisfactory / Not Satisfactory

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16/5/19

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TEST REPORT

Client	BRUHAT BENGALORE MAHANAGARA PALIKE
Project	Package-05 1.Improvement to Roads and Drains at Ashraya Badavane in Ward No.11, 2. Improvement to Roads and Drains at Kuvempunagar 1st and 2nd stage in Ward No.11, 3. Improvement to Roads and Drains at Ramachandrapura in Ward No.11 and 4. Improvement to Roads and Drains at M S Paly in Ward No.11
Consultants	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
Contractor	M/s Slp Infra Engineers Pvt Ltd.

SPECIFIC GRAVITY AND WATER ABSORPTION

FINE AGGREGATE (IS-2386-PART-3)

Type of Material	Fine aggregate (River Sand/ M sand)	**Proposed Use**	concrete
Material source	At Site/Plant	**Date of Sampling**	02.05.19
Period of Soaking	24 hours	**Date of Testing**	02.05.19

Test Property	TRIAL - 1	TRIAL - 2	TRIAL - 3	
(A) Weight of sturated surface dry sample gm.	648	679	658	
(B) Weight of oven - dry sample gm.	641	672	648	
(C) Weight of Pycnometer Filled with water gm	1275	1275	1275	
(D) Weight of Pycnometer + sample + water gm	1682	1701	1690	
(E) Bulk specific gravity $\frac{B}{(C+A-D)}$	2.660	2.656	2.667	2.661
(F) Absorption (%) $\frac{(A-B)*100}{B}$	1.092	1.042	1.543	1.226

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TEST REPORT

Clients	Bruhat Bangalore Mahanagara Palike
Project	Package-05 1.Improvement to Roads and Drains at Ashraya Badavane in Ward No.11, 2. Improvement to Roads and Drains at Kuvempunagar 1st and 2nd stage in Ward No.11, 3. Improvement to Roads and Drains at Ramachandrapura in Ward No.11 and 4. Improvement to Roads and Drains at M S Paly in Ward No.11
Consultants	Tejus Consultants, Bangalore
Contractor	M/s Slp Infra Engineers Pvt Ltd.

SIEVE ANALYSIS

Total Weight:	3000 gms		
Type of Material	Fine aggregate (River Sand/ M sand)	Proposed Use	concrete
Sample Location	At Site/Plant	Date of Sampling	02.05.19
		Date of Testing	02.05.19

IS Sieve Size	Weight Retained	Cum. Weight Retained	Cum. % Retained	Cum. % Passing	Spec. Limit (%) Passing (Zone-II)
10.00 mm	0	0	0	100.00	100
4.75 mm	210	210	7.00	93.00	90 - 100
2.36 mm	306	516	17.20	82.80	75 - 100
1.18 mm	422	938	31.27	68.73	55 - 90
600 mm	486	1424	47.47	52.53	35 -59
300 mm	710	2134	71.13	28.87	8-30
150 mm	632	2766	92.20	7.80	0 - 10
Pan	234	3000			-

Remarks : ✓ Satisfactory / Not Satisfactory

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TEST REPORT

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Project	Package-05 1.Improvement to Roads and Drains at Ashraya Badavane in Ward No.11, 2. Improvement to Roads and Drains at Kuvempunagar 1st and 2nd stage in Ward No.11, 3. Improvement to Roads and Drains at Ramachandrapura in Ward No.11 and 4. Improvement to Roads and Drains at M S Paly in Ward No.11
Consultants	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
Contractor	M/s Slp Infra Engineers Pvt Ltd.

SPECIFIC GRAVITY AND WATER ABSORPTION

FINE AGGREGATE (IS-2386-PART-3)

Type of Material	Fine aggregate (River Sand/ M sand)	**Proposed Use**	concrete
Location/Source	At Site/Plant	**Date of Sampling**	02.05.19
Period of Soaking	24 hours	**Date of Testing**	02.05.19

Sl No.	Test Property		TRIAL - 1	TRIAL - 2	TRIAL - 3	
(A)	Weight of sturated surface dry sample gm.		648	678	658	
(B)	Weight of oven - dry sample gm.		641	670	648	
(C)	Weight of Pycnometer Filled with water gm		1275	1275	1275	
(D)	Weight of Pycnometer + sample + water gm		1682	1701	1690	
(E)	Bulk specific gravity	$\frac{B}{(C+A-D)}$	2.660	2.659	2.667	2.662
(F)	Absorption (%)	$\frac{(A-B)*100}{B}$	1.092	1.194	1.543	1.276

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Test Report on Cement

Project	Package-05 1.Improvement to Roads and Drains at Ashraya Badavane in Ward No.11, 2. Improvement to Roads and Drains at Kuvempunagar 1st and 2nd stage in Ward No.11, 3. Improvement to Roads and Drains at Ramachandrapura in Ward No.11 and 4. Improvement to Roads and Drains at M S Paly in Ward No.11
Client	Bruhat Bangalore Mahanagar Palike
Consultant	TEJUS CONSULTANTS
Contractor	M/s Slp Infra Engineers Pvt Ltd.
Sample ID	Cement
Date of Sample Tested	02.05.19
Sample Supplied By	Agency

Sl.No.	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 12269-1987
1	a) Initial Setting Time	IS-4031 (Part-5)	37 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part-5)	346 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part-3) By the Le-Chatelier method	2mm	Not More than 10 mm
3	Standard Consistency	IS-4031 (Part-4)	29.00%	25 % to 35

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Test Report on Cement

Project	Package-05 1.Improvement to Roads and Drains at Ashraya Badavane in Ward No.11, 2. Improvement to Roads and Drains at Kuvempunagar 1st and 2nd stage in Ward No.11, 3. Improvement to Roads and Drains at Ramachandrapura in Ward No.11 and 4. Improvement to Roads and Drains at M S Paly in Ward No.11
Client	Bruhat Bangalore Mahanagar Palike
Consultant	TEJUS CONSULTANTS
Contractor	M/s Slp Infra Engineers Pvt Ltd.
Sample ID	Cement
Date of Sample Tested	02.05.19
Sample Supplied By	Agency

Sl.No.	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 12269-1987
1	a) Initial Setting Time	IS-4031 (Part-5)	35Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part-5)	340 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part-3) By the Le-Chatelier method	3mm	Not More than 10 mm
3	Standard Consistency	IS-4031 (Part-4)	26.00%	25 % to 35

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TEST REPORT

Clients	Bruhat Bangalore Mahanagara Palike
Project	Package-05 1.Improvement to Roads and Drains at Ashraya Badavane in Ward No.11, 2. Improvement to Roads and Drains at Kuvempunagar 1st and 2nd stage in Ward No.11, 3. Improvement to Roads and Drains at Ramachandrapura in Ward No.11 and 4. Improvement to Roads and Drains at M S Paly in Ward No.11
Consultants	TEJUS CONSULTANTS
Contractor	M/s Slp Infra Engineers Pvt Ltd.
Total Weight:	10000 gms

SIEVE ANALYSIS

Type of Material	12.5 mm down size	Proposed Use	CONCRETE
Sample Location	At Site/Plant	Date of Sampling	02.05.19
		Date of Testing	02.05.19

IS Sieve Size (in mm)	Weight Retained	Cum. Weight Retained	Cum. % Retained	Cum. % Passing	Spec. Limit (%) Passing
20.0	0	0	0	100	100
12.5	528	528	5.28	94.72	90-100
10.0	4695	5223	52.23	47.77	40-85
4.75	4555	9778	97.78	2.22	0-10
Pan	222	10000			

Remarks :

✓ Satisfactory / Not Satisfactory

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